

FILE 'USPAT' ENTERED AT 19:19:16 ON 02 JUL 1997

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* U.S. PATENT TEXT FILE *

=> s (platelet derived growth factor#) or pdgf
10509 PLATELET
284821 DERIVED
123324 GROWTH
381215 FACTOR#
1057 PLATELET DERIVED GROWTH FACTOR#
(PLATELET(W)DERIVED(W)GROWTH(W)FACTOR#)
804 PDGF
L1 1245 (PLATELET DERIVED GROWTH FACTOR#) OR PDGF

=> s homodimer or AA
337 HOMODIMER
21018 AA
L2 21300 HOMODIMER OR AA

=> s l1 (2a) l2
L3 93 L1 (2A) L2

=> d bib 1-

US PAT NO: 5,644,026 [IMAGE AVAILABLE] L3: 1 of 93
DATE ISSUED: Jul. 1, 1997
TITLE: Epatixin, a cell motility factor
INVENTOR: Yu Yamaguchi, San Diego, CA
Motoyuki Shimonaka, San Diego, CA
ASSIGNEE: La Jolla Cancer Research Foundation, La Jolla, CA (U.S. corp.)
APPL-NO: 08/237,280
DATE FILED: May 3, 1994
ART-UNIT: 181
PRIM-EXMR: Cecilia J. Tsang
ASST-EXMR: Anish Gupta
LEGAL-REP: Campbell & Flores LLP

US PAT NO: 5,629,315 [IMAGE AVAILABLE] L3: 2 of 93
DATE ISSUED: May 13, 1997
TITLE: Treatment of diseases using enantiomerically pure hydroxylated xanthine compounds
INVENTOR: James A. Bianco, Seattle, WA
Paul Woodson, Bothell, WA
David Porubek, Edmonds, WA
Jack Singer, Seattle, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/456,900
DATE FILED: Jun. 1, 1995
ART-UNIT: 125
PRIM-EXMR: Theodore J. Criares
LEGAL-REP: Stephen Faciszewski

US PAT NO: 5,629,286 [IMAGE AVAILABLE] L3: 3 of 93
DATE ISSUED: May 13, 1997
TITLE: Homeopathic dilutions of growth factors
INVENTOR: Barbara Brewitt, 5557 - 36th Ave. NE., Seattle, WA 98105-2313
APPL-NO: 08/710,040
DATE FILED: Sep. 10, 1996
ART-UNIT: 336
PRIM-EXMR: Robert A. Hafer
ASST-EXMR: Chalin Smith
LEGAL-REP: Ann W. Speckman, Janet Sleath

US PAT NO: 5,626,617 [IMAGE AVAILABLE] L3: 4 of 93
DATE ISSUED: May 6, 1997
TITLE: Methods for treating disorders by administering radio frequency signals corresponding to growth factors
INVENTOR: Barbara Brewitt, 6812 Woodlawn Ave. NE., Seattle, WA 98115-5420
APPL-NO: 08/575,840
DATE FILED: Dec. 20, 1995
ART-UNIT: 336
PRIM-EXMR: Robert A. Hafer
ASST-EXMR: Chalin Smith
LEGAL-REP: Ann W. Speckman, Janet Sleath

US PAT NO: 5,624,893 [IMAGE AVAILABLE] L3: 5 of 93
DATE ISSUED: Apr. 29, 1997
TITLE: Pharmaceutical compositions and methods of treatment of the cornea following laser irradiation
INVENTOR: John M. Yanni, Burlingame, TX
ASSIGNEE: Alcon Laboratories, Inc., Fort Worth, TX (U.S. corp.)
APPL-NO: 08/355,461

DATE FILED: Dec. 13, 1994
ART-UNIT: 125
PRIM-EXMR: Zohreh Fay
LEGAL-REP: Jeffrey S. Schira

US PAT NO: 5,621,102 [IMAGE AVAILABLE] L3: 6 of 93
DATE ISSUED: Apr. 15, 1997
TITLE: Process for preparing enantiomerically pure xanthine derivatives
INVENTOR: James A. Bianco, Seattle, WA
Paul Woodson, Bothell, WA
David Porubek, Edmonds, WA
Jack Singer, Seattle, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/456,897
DATE FILED: Jun. 1, 1995
ART-UNIT: 123
PRIM-EXMR: Alan L. Rotman
LEGAL-REP: Stephen Faciszewski

US PAT NO: 5,620,984 [IMAGE AVAILABLE] L3: 7 of 93
DATE ISSUED: Apr. 15, 1997
TITLE: Enantiomerically pure hydroxylated xanthine compounds to treat inflammatory diseases
INVENTOR: James A. Bianco, Seattle, WA
Paul Woodson, Bothell, WA
David Porubek, Edmonds, WA
Jack Singer, Seattle, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/456,898
DATE FILED: Jun. 1, 1995
ART-UNIT: 125
PRIM-EXMR: Theodore J. Criares
LEGAL-REP: Stephen Faciszewski, Jeffrey B. Oster

US PAT NO: 5,620,687 [IMAGE AVAILABLE] L3: 8 of 93
DATE ISSUED: Apr. 15, 1997
TITLE: Inhibition of intimal hyperplasia using antibodies to PDGF beta receptors
INVENTOR: Charles E. Hart, Brier, WA
Richard D. Kenagy, Seattle, WA
Alexander W. Clowes, Seattle, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
University of Washington, Seattle, WA (U.S. corp.)
APPL-NO: 08/366,860
DATE FILED: Dec. 30, 1994
ART-UNIT: 186
PRIM-EXMR: Christina Y. Chan
ASST-EXMR: Phillip Gambel
LEGAL-REP: Gary E. Parker, Debra K. Leith, Deborah A. Sawislak

US PAT NO: 5,618,837 [IMAGE AVAILABLE] L3: 9 of 93
DATE ISSUED: Apr. 8, 1997
TITLE: PDGF antagonists III
INVENTOR: Charles E. Hart, Brier, WA
Oliver J. McConnell, Wayne, PA
Robert R. West, Seattle, WA
Theresa Martinez, Greenbank, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/483,216
DATE FILED: Jun. 7, 1995
ART-UNIT: 125
PRIM-EXMR: Kimberly Jordan
LEGAL-REP: Gary E. Parker, Debra K. Leith, Deborah A. Sawislak

US PAT NO: 5,618,678 [IMAGE AVAILABLE] L3: 10 of 93
DATE ISSUED: Apr. 8, 1997
TITLE: Methods for detecting PDGF agonist or antagonist activity using PDGF .alpha.
INVENTOR: James D. Kelly, Seattle, WA
Mark J. Murray, Seattle, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/340,754
DATE FILED: Nov. 16, 1994
ART-UNIT: 182
PRIM-EXMR: Stephen G. Walsh
ASST-EXMR: Sally P. Teng
LEGAL-REP: Townsend and Townsend and Crew

US PAT NO: 5,612,349 [IMAGE AVAILABLE] L3: 11 of 93
DATE ISSUED: Mar. 18, 1997
TITLE: Enantiomerically pure hydroxylated xanthine compounds to treat shock symptoms
INVENTOR: James A. Bianco, Seattle, WA
Paul Woodson, Bothell, WA
David Porubek, Edmonds, WA
Jack Singer, Seattle, WA

ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/457,062
DATE FILED: Jun. 1, 1995
ART-UNIT: 125
PRIM-EXMR: Theodore J. Criares
LEGAL-REP: Stephen Faciszewski

US PAT NO: 5,605,816 [IMAGE AVAILABLE] L3: 12 of 93
DATE ISSUED: Feb. 25, 1997
TITLE: Recombinant DNA encoding PDGF A-chain polypeptides
INVENTOR: Carl-Henrik Heldin, Uppsala, Sweden
Christer Betsholtz, Uppsala, Sweden
Bengt Westermark, Uppsala, Sweden
Timothy J. Knott, London, England
James Scott, Harrow, United Kingdom
Graeme I. Bell, San Francisco, CA
ASSIGNEE: Chiron Corporation, Emeryville, CA (U.S. corp.)
APPL-NO: 08/454,425
DATE FILED: May 30, 1995
ART-UNIT: 182
PRIM-EXMR: Marianne P. Allen
LEGAL-REP: Roberta L. Robins, Amy L. Collins, Robert P. Blackburn

US PAT NO: 5,595,722 [IMAGE AVAILABLE] L3: 13 of 93
DATE ISSUED: Jan. 21, 1997
TITLE: Method for identifying an agent which increases TGF-beta levels
INVENTOR: David J. Grainger, Cambridge, England
James C. Metcalfe, Cambridge, England
ASSIGNEE: NeoRx Corporation, Seattle, WA (U.S. corp.)
APPL-NO: 08/476,735
DATE FILED: Jun. 7, 1995
ART-UNIT: 125
PRIM-EXMR: Raymond Henley, III
LEGAL-REP: Schwegman, Lundberg, Woessner & Kluth, P.A.

US PAT NO: 5,591,453 [IMAGE AVAILABLE] L3: 14 of 93
DATE ISSUED: Jan. 7, 1997
TITLE: Incorporation of biologically active molecules into bioactive glasses
INVENTOR: Paul Ducheyne, Rosemont, PA
Shulamith Radin, Voorhees, NJ
Erick M. Santos, Philadelphia, PA
ASSIGNEE: The Trustees of the University of Pennsylvania, Philadelphia, PA (U.S. corp.)
APPL-NO: 08/477,585
DATE FILED: Jun. 7, 1995
ART-UNIT: 151
PRIM-EXMR: Amy Hulina
LEGAL-REP: Woodcock Washburn Kurtz Mackiewicz & Norris

US PAT NO: 5,585,270 [IMAGE AVAILABLE] L3: 15 of 93
DATE ISSUED: Dec. 17, 1996
TITLE: Polynucleotides encoding connective tissue growth factor
INVENTOR: Gary R. Grotendorst, Lutz, FL
Douglass M. Bradham, Jr., Baltimore, MD
ASSIGNEE: University of South Florida, Tampa, FL (U.S. corp.)
APPL-NO: 08/386,680
DATE FILED: Feb. 10, 1995
ART-UNIT: 182
PRIM-EXMR: John Ulm
ASST-EXMR: Lorraine M. Spector
LEGAL-REP: Fish & Richardson P.C.

US PAT NO: 5,580,874 [IMAGE AVAILABLE] L3: 16 of 93
DATE ISSUED: Dec. 3, 1996
TITLE: Enantiomerically pure hydroxylated xanthine compounds
INVENTOR: James A. Bianco, Seattle, WA
Paul Woodson, Bothell, WA
David Porubek, Edmonds, WA
Jack Singer, Seattle, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/457,885
DATE FILED: Jun. 1, 1995
ART-UNIT: 125
PRIM-EXMR: Theodore J. Criares
LEGAL-REP: Stephen Faciszewski

US PAT NO: 5,580,873 [IMAGE AVAILABLE] L3: 17 of 93
DATE ISSUED: Dec. 3, 1996
TITLE: Enantiomerically pure hydroxylated xanthine compounds to treat proliferative vascular diseases
INVENTOR: James A. Bianco, Seattle, WA
Paul Woodson, Bothell, WA
David Porubek, Edmonds, WA
Jack Singer, Seattle, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)

APPL-NO: 08/456,899
DATE FILED: Jun. 1, 1995
ART-UNIT: 125
PRIM-EXMR: Theodore J. Criares
LEGAL-REP: Jeffrey B. Oster

US PAT NO: 5,567,704 [IMAGE AVAILABLE] L3: 18 of 93
DATE ISSUED: Oct. 22, 1996
TITLE: R-enantiomerically pure hydroxylated xanthine compounds to treat baldness
INVENTOR: James A. Bianco, Seattle, WA
Paul Woodson, Bothell, WA
David Porubek, Edmonds, WA
Jack Singer, Seattle, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/457,683
DATE FILED: Jun. 1, 1995
ART-UNIT: 125
PRIM-EXMR: Theodore J. Criares
LEGAL-REP: Jeffrey B. Oster

US PAT NO: 5,567,584 [IMAGE AVAILABLE] L3: 19 of 93
DATE ISSUED: Oct. 22, 1996
TITLE: Methods of using biologically active dimerized polypeptide fusions to detect PDGF
INVENTOR: Andrzej Z. Sledziewski, Seattle, WA
Lillian A. Bell, Seattle, WA
Wayne R. Kindsvogel, Seattle, WA
ASSIGNEE: Zymogenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/180,195
DATE FILED: Jan. 11, 1994
ART-UNIT: 182
PRIM-EXMR: John Ulm
LEGAL-REP: Seed and Berry LLP

US PAT NO: 5,565,519 [IMAGE AVAILABLE] L3: 20 of 93
DATE ISSUED: Oct. 15, 1996
TITLE: Clear, chemically modified collagen-synthetic polymer conjugates for ophthalmic applications
INVENTOR: Woonza M. Rhee, Palo Alto, CA
Prema R. Rao, Los Gatos, CA
George H. Chu, Cupertino, CA
Frank A. DeLustro, Belmont, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/147,227
DATE FILED: Nov. 3, 1993
ART-UNIT: 153
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Kathi Rafayko, Shirley L. Church

US PAT NO: 5,563,173 [IMAGE AVAILABLE] L3: 21 of 93
DATE ISSUED: Oct. 8, 1996
TITLE: Anti-proliferative effects of sodium butyrate
INVENTOR: Frank M. Yatsu, Houston, TX
Kasturi Ranganna, Houston, TX
ASSIGNEE: Research Development Foundation, Carson City, NV (U.S. corp.)
APPL-NO: 08/362,829
DATE FILED: Dec. 22, 1994
ART-UNIT: 125
PRIM-EXMR: Marianne M. Cintins
ASST-EXMR: William R.A. Jarvis
LEGAL-REP: Benjamin Aaron Adler

US PAT NO: 5,550,188 [IMAGE AVAILABLE] L3: 22 of 93
DATE ISSUED: Aug. 27, 1996
TITLE: Polymer conjugates ophthalmic devices comprising collagen-polymer conjugates
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA
Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/478,510
DATE FILED: Jun. 7, 1995
ART-UNIT: 127
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,545,569 [IMAGE AVAILABLE] L3: 23 of 93
DATE ISSUED: Aug. 13, 1996
TITLE: Prevention and treatment of pathologies associated with abnormally proliferative smooth muscle cells
INVENTOR: David J. Grainger, Cambridge, United Kingdom

James C. Metcalfe, Cambridge, United Kingdom
Peter L. Weissberg, Cambridge, United Kingdom
ASSIGNEE: NeoRx Corporation, Seattle, WA (U.S. corp.)
APPL-NO: 08/450,520
DATE FILED: May 25, 1995
ART-UNIT: 125
PRIM-EXMR: Raymond Henley, III
LEGAL-REP: Schwegman, Lundberg, Woessner & Kluth, P.A.

US PAT NO: 5,543,441 [IMAGE AVAILABLE] L3: 24 of 93
DATE ISSUED: Aug. 6, 1996
TITLE: Implants coated with collagen-polymer conjugates
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA
Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/427,578
DATE FILED: Apr. 24, 1995
ART-UNIT: 127
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,533,836 [IMAGE AVAILABLE] L3: 25 of 93
DATE ISSUED: Jul. 9, 1996
TITLE: Compositions and methods for stimulating the growth of osteoblasts
INVENTOR: Emma E. Moore, Seattle, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/408,331
DATE FILED: Mar. 22, 1995
ART-UNIT: 181
PRIM-EXMR: Howard E. Schain
LEGAL-REP: Deborah A. Sawislak

US PAT NO: 5,523,348 [IMAGE AVAILABLE] L3: 26 of 93
DATE ISSUED: Jun. 4, 1996
TITLE: Method of preparing collagen-polymer conjugates
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA
Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/292,415
DATE FILED: Aug. 18, 1994
ART-UNIT: 127
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,521,315 [IMAGE AVAILABLE] L3: 27 of 93
DATE ISSUED: May 28, 1996
TITLE: Olefin substituted long chain compounds
INVENTOR: Gail Underiner, Brier, WA
David Porubek, Seattle, WA
J. Peter Klein, Vashon, WA
Elisa Eiseman, Seattle, WA
Alistair Leigh, Brier, WA
Anil Kumar, Seattle, WA
John Michnick, Seattle, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/059,697
DATE FILED: May 10, 1993
ART-UNIT: 122
PRIM-EXMR: Mukund J. Shah
ASST-EXMR: Pavanaram K. Sripada
LEGAL-REP: Stephen Faciszewski, Jeffrey B. Oster

US PAT NO: 5,512,545 [IMAGE AVAILABLE] L3: 28 of 93
DATE ISSUED: Apr. 30, 1996
TITLE: PDGF-B analogues
INVENTOR: David Brown, Canterbury, England
Richard M. Edwards, Oxford, England
Stewart Craig, Oxford, England
Anne L. Cook, Oxford, England
John M. Clements, Oxford, England
ASSIGNEE: British Biotech Pharmaceuticals Limited, both of, United Kingdom (foreign corp.)
Pfizer Limited, both of, United Kingdom (foreign corp.)
APPL-NO: 08/094,079
DATE FILED: Aug. 31, 1993
ART-UNIT: 182
PRIM-EXMR: Marianne P. Allen

LEGAL-REP: Banner & Allegretti, Ltd.

US PAT NO: 5,510,418 [IMAGE AVAILABLE] L3: 29 of 93
DATE ISSUED: Apr. 23, 1996
TITLE: Glycosaminoglycan-synthetic polymer conjugates
INVENTOR: Woonza M. Rhee, Palo Alto, CA
Richard A. Berg, Los Altos, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/148,843
DATE FILED: Nov. 3, 1993
ART-UNIT: 153
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Kathi Rafayko, Shirley L. Church

US PAT NO: 5,510,121 [IMAGE AVAILABLE] L3: 30 of 93
DATE ISSUED: Apr. 23, 1996
TITLE: Glycosaminoglycan-synthetic polymer conjugates
INVENTOR: Woonza M. Rhee, 3845 LaDonna Ave., Palo Alto, CA 94306
Richard A. Berg, 660 S. Springer Rd., Los Altos, CA 94024
APPL-NO: 08/434,958
DATE FILED: May 4, 1995
ART-UNIT: 127
PRIM-EXMR: Nathan M. Nutter

US PAT NO: 5,508,030 [IMAGE AVAILABLE] L3: 31 of 93
DATE ISSUED: Apr. 16, 1996
TITLE: Creating new capillary blood pools for practicing bidirectional medicine
INVENTOR: Howard R. Bierman, 150 N. Robertson Blvd., Ste. 314, Beverly Hills, CA 90211
APPL-NO: 08/102,448
DATE FILED: Aug. 5, 1993
ART-UNIT: 181
PRIM-EXMR: Chhaya D. Sayala
LEGAL-REP: Albert M. Herzig

US PAT NO: 5,504,103 [IMAGE AVAILABLE] L3: 32 of 93
DATE ISSUED: Apr. 2, 1996
TITLE: Inhibition of phosphatidylinositol 3-kinase with 17 beta-hydroxywortmannin and analogs thereof
INVENTOR: Rosanne Bonjouklian, Zionsville, IN
Jeffrey A. Dodge, Indianapolis, IN
Chris J. Vlahos, Carmel, IN
ASSIGNEE: Eli Lilly and Company, Indianapolis, IN (U.S. corp.)
APPL-NO: 08/111,687
DATE FILED: Aug. 25, 1993
ART-UNIT: 129
PRIM-EXMR: Allen J. Robinson
ASST-EXMR: Deborah Lambkin
LEGAL-REP: Roger S. Benjamin, Steven A. Fontana, David E. Boone

US PAT NO: 5,480,906 [IMAGE AVAILABLE] L3: 33 of 93
DATE ISSUED: Jan. 2, 1996
TITLE: Stereochemical Wortmannin derivatives
INVENTOR: Lawrence C. Creemer, Indianapolis, IN
Herbert A. Kirst, Indianapolis, IN
ASSIGNEE: Eli Lilly and Company, Indianapolis, IN (U.S. corp.)
APPL-NO: 08/269,718
DATE FILED: Jul. 1, 1994
ART-UNIT: 123
PRIM-EXMR: C. Warren Ivy
ASST-EXMR: Ba K. Trinh
LEGAL-REP: Thomas J. Dodd, David E. Boone

US PAT NO: 5,476,666 [IMAGE AVAILABLE] L3: 34 of 93
DATE ISSUED: Dec. 19, 1995
TITLE: Glycosaminoglycan-synthetic polymer conjugates
INVENTOR: Woonza M. Rhee, Palo Alto, CA
Richard A. Berg, Los Altos, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/434,725
DATE FILED: May 4, 1995
ART-UNIT: 127
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Kathi Rafayko

US PAT NO: 5,475,052 [IMAGE AVAILABLE] L3: 35 of 93
DATE ISSUED: Dec. 12, 1995
TITLE: Collagen-synthetic polymer matrices prepared using a multiple step reaction
INVENTOR: Woonza M. Rhee, Palo Alto, CA
Richard A. Berg, Los Altos, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/236,769
DATE FILED: May 2, 1994
ART-UNIT: 127

PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Kathi Rafayko

US PAT NO: 5,474,982 [IMAGE AVAILABLE] L3: 36 of 93
DATE ISSUED: Dec. 12, 1995
TITLE: PDGF analogs and methods of use
INVENTOR: Mark J. Murray, Seattle, WA
James D. Kelly, Seattle, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/273,779
DATE FILED: Jul. 12, 1994
ART-UNIT: 181
PRIM-EXMR: Jill Warden
ASST-EXMR: Benet Prickril
LEGAL-REP: Seed and Bery

US PAT NO: 5,473,070 [IMAGE AVAILABLE] L3: 37 of 93
DATE ISSUED: Dec. 5, 1995
TITLE: Substituted long chain alcohol xanthine compounds
INVENTOR: Gail Underiner, Brier, WA
David Porubek, Edmonds, WA
J. Peter Klein, Vashon Island, WA
Paul Woodson, Bothell, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 07/976,353
DATE FILED: Nov. 16, 1992
ART-UNIT: 122
PRIM-EXMR: Mukund J. Shah
ASST-EXMR: P. K. Sripada
LEGAL-REP: Stephen Faciszewski, Jeffrey B. Oster

US PAT NO: 5,470,911 [IMAGE AVAILABLE] L3: 38 of 93
DATE ISSUED: Nov. 28, 1995
TITLE: Glycosaminoglycan-synthetic polymer conjugates
INVENTOR: Woonza M. Rhee, Palo Alto, CA
Richard A. Berg, Los Altos, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/433,656
DATE FILED: May 4, 1995
ART-UNIT: 127
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Kathi Rafayko

US PAT NO: 5,470,878 [IMAGE AVAILABLE] L3: 39 of 93
DATE ISSUED: Nov. 28, 1995
TITLE: Cell signaling inhibitors
INVENTOR: John Michnick, Seattle, WA
Gail E. Underiner, Brier, WA
J. Peter Klein, Vashon Island, WA
Glenn C. Rice, Seattle, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/164,081
DATE FILED: Dec. 8, 1993
ART-UNIT: 129
PRIM-EXMR: Shailendra Kumar
LEGAL-REP: Stephen Faciszewski, Jeffrey B. Oster

US PAT NO: 5,468,468 [IMAGE AVAILABLE] L3: 40 of 93
DATE ISSUED: Nov. 21, 1995
TITLE: Method for making a monoclonal antibody, monoclonal antibodies to .alpha. PD
INVENTOR: William J. LaRochelle, Gaithersburg, MD
Jacalyn Pierce, Potomac, MD
Roy A. Jensen, Franklin, TN
Stuart A. Aaronson, Great Falls, VA
ASSIGNEE: The United States of America, as represented by the Secretary of the Department of Health & Human Services, Washington, DC (U.S. govt.)
APPL-NO: 08/081,216
DATE FILED: Jun. 25, 1993
ART-UNIT: 188
PRIM-EXMR: David L. Lacey
ASST-EXMR: Susan A. Loring
LEGAL-REP: Foley & Lardner

US PAT NO: 5,457,093 [IMAGE AVAILABLE] L3: 41 of 93
DATE ISSUED: Oct. 10, 1995
TITLE: Gel formulations containing growth factors
INVENTOR: John K. Cini, Bethlehem, PA
Amy L. Finkensaur, Neshanic Station, NJ
ASSIGNEE: Ethicon, Inc., Somerville, NJ (U.S. corp.)
APPL-NO: 08/135,230
DATE FILED: Oct. 12, 1993
ART-UNIT: 181
PRIM-EXMR: Howard E. Schain
ASST-EXMR: Sheila J. Huff

US PAT NO: 5,455,041 [IMAGE AVAILABLE] L3: 42 of 93
DATE ISSUED: Oct. 3, 1995
TITLE: Method for inducing periodontal tissue regeneration
INVENTOR: Robert J. Genco, Buffalo, NY
Moon-Il Cho, Amherst, NY
ASSIGNEE: Research Foundation of State University of New York at Buffalo, Buffalo, NY (U.S. corp.)
APPL-NO: 08/121,041
DATE FILED: Sep. 13, 1993
ART-UNIT: 152
PRIM-EXMR: Thurman K. Page
ASST-EXMR: Carlos Azpuru
LEGAL-REP: Hodgson, Russ, Andrews, Woods & Goodyear

US PAT NO: 5,448,091 [IMAGE AVAILABLE] L3: 43 of 93
DATE ISSUED: Aug. 29, 1995
TITLE: Collagen-polymer conjugates containing an ether linkage
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA
Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/368,874
DATE FILED: Jan. 5, 1995
ART-UNIT: 153
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,444,151 [IMAGE AVAILABLE] L3: 44 of 93
DATE ISSUED: Aug. 22, 1995
TITLE: Platelet derived growth factor antagonists
INVENTOR: Flemming S. Vassbotn, Uppsala, Sweden
Maria Andersson, Uppsala, Sweden
Gudrun Backstrom, Uppsala, Sweden
Ulla Engstrom, Uppsala, Sweden
Carl-Henrik Heldin, Uppsala, Sweden
Ulf Hellman, Uppsala, Sweden
Arne stman, Uppsala, Sweden
Bengt Westermark, Uppsala, Sweden
ASSIGNEE: Ludwig Institute for Cancer Research, New York, NY (U.S. corp.)
APPL-NO: 07/977,234
DATE FILED: Nov. 16, 1992
ART-UNIT: 182
PRIM-EXMR: Garnette D. Draper
ASST-EXMR: Marianne Allen
LEGAL-REP: Felfe & Lynch

US PAT NO: 5,440,041 [IMAGE AVAILABLE] L3: 45 of 93
DATE ISSUED: Aug. 8, 1995
TITLE: Acetal or ketal substituted xanthine compounds
INVENTOR: Alistair Leigh, Edmonds, WA
Gail Underiner, Brier, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/194,135
DATE FILED: Feb. 8, 1994
ART-UNIT: 122
PRIM-EXMR: Mukund J. Shah
ASST-EXMR: Pavanaram K. Sripada
LEGAL-REP: Stephen Faciszewski, Jeffrey B. Oster

US PAT NO: 5,428,135 [IMAGE AVAILABLE] L3: 46 of 93
DATE ISSUED: Jun. 27, 1995
TITLE: Production of platelet-derived growth factor B-chain heterodimers from high expression host cell system
INVENTOR: David E. Lyons, Thousand Oaks, CA
Arlen R. Thomason, Thousand Oaks, CA
ASSIGNEE: Amgen Inc., Thousand Oaks, CA (U.S. corp.)
APPL-NO: 08/236,880
DATE FILED: Apr. 29, 1994
ART-UNIT: 182
PRIM-EXMR: Marianne Porta Allen
LEGAL-REP: Julia E. Abers

US PAT NO: 5,428,010 [IMAGE AVAILABLE] L3: 47 of 93
DATE ISSUED: Jun. 27, 1995
TITLE: Biologically active B-chain homodimers
INVENTOR: Mark J. Murray, Seattle, WA
James D. Kelly, Seattle, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 07/852,905
DATE FILED: Mar. 18, 1992
ART-UNIT: 182

PRIM-EXMR: Garnette D. Draper
ASST-EXMR: Shelly Guest Cermak
LEGAL-REP: Seed and Berry

US PAT NO: 5,418,222 [IMAGE AVAILABLE] L3: 48 of 93
DATE ISSUED: May 23, 1995
TITLE: Multi-layered collagen film compositions for delivery of proteins and methods of using same
INVENTOR: Suk-Zu Song, Moorpark, CA
Andrew Morawiecki, Camarillo, CA
Glenn F. Pierce, Thousand Oaks, CA
Colin G. Pitt, Westlake Village, CA
ASSIGNEE: Amgen Inc., Thousand Oaks, CA (U.S. corp.)
APPL-NO: 08/267,647
DATE FILED: Jun. 28, 1994
ART-UNIT: 185
PRIM-EXMR: Michael G. Wityshyn
ASST-EXMR: Nancy J. Gromet-Degen
LEGAL-REP: Daniel M. Chambers, Daniel R. Curry

US PAT NO: 5,418,135 [IMAGE AVAILABLE] L3: 49 of 93
DATE ISSUED: May 23, 1995
TITLE: Method of inhibiting binding of PDGF to a PDGF receptor by biosynthetic PDGF antagonists
INVENTOR: Roy H. L. Pang, Medway, MA
ASSIGNEE: Creative BioMolecules, Inc., Hopkinton, MA (U.S. corp.)
APPL-NO: 08/095,898
DATE FILED: Jul. 21, 1993
ART-UNIT: 182
PRIM-EXMR: Garnette D. Draper
ASST-EXMR: Gian P. Wang
LEGAL-REP: Testa, Hurwitz & Thibault

US PAT NO: 5,413,791 [IMAGE AVAILABLE] L3: 50 of 93
DATE ISSUED: May 9, 1995
TITLE: Collagen-polymer conjugates
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA
Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/198,128
DATE FILED: Feb. 17, 1994
ART-UNIT: 153
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,408,040 [IMAGE AVAILABLE] L3: 51 of 93
DATE ISSUED: Apr. 18, 1995
TITLE: Connective tissue growth factor(CTGF)
INVENTOR: Gary R. Grotendorf, Lutz, FL
Douglas M. Bradham, Jr., Baltimore, MD
ASSIGNEE: University of South Florida, Tampa, FL (U.S. corp.)
APPL-NO: 08/167,828
DATE FILED: Dec. 14, 1993
ART-UNIT: 182
PRIM-EXMR: Garnette D. Draper
ASST-EXMR: Lorraine M. Spector

US PAT NO: 5,378,725 [IMAGE AVAILABLE] L3: 52 of 93
DATE ISSUED: Jan. 3, 1995
TITLE: Inhibition of phosphatidylinositol 3-kinase with wortmannin and analogs thereof
INVENTOR: Rosanne Bonjouklian, Zionsville, IN
Chris J. Vlahos, Carmel, IN
Garth Powis, Tucson, AZ
ASSIGNEE: The Arizona Board of Regents, Tucson, AZ (U.S. corp.)
Eli Lilly and Company, Indianapolis, IN (U.S. corp.)
APPL-NO: 08/094,279
DATE FILED: Jul. 19, 1993
ART-UNIT: 125
PRIM-EXMR: Raymond J. Henley, III
LEGAL-REP: Steven A. Fontana, David E. Boone

US PAT NO: 5,376,375 [IMAGE AVAILABLE] L3: 53 of 93
DATE ISSUED: Dec. 27, 1994
TITLE: Method of augmenting tissue using collagen-polymer conjugates
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA

Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/177,578
DATE FILED: Jan. 5, 1994
ART-UNIT: 153
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,371,205 [IMAGE AVAILABLE] L3: 54 of 93
DATE ISSUED: Dec. 6, 1994
TITLE: PDGF .alpha. receptor
INVENTOR: James D. Kelly, Seattle, WA
Mark J. Murray, Seattle, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 07/947,358
DATE FILED: Sep. 18, 1992
ART-UNIT: 187
PRIM-EXMR: Mindy B. Fleisher
LEGAL-REP: Seed and Berry

US PAT NO: 5,354,756 [IMAGE AVAILABLE] L3: 55 of 93
DATE ISSUED: Oct. 11, 1994
TITLE: Olefin-substituted long chain xanthine compounds
INVENTOR: Gail Underiner, Brier, WA
David Porubek, Edmonds, WA
J. Peter Klein, Vashon Island, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 08/003,372
DATE FILED: Jan. 12, 1993
ART-UNIT: 122
PRIM-EXMR: John M. Ford
ASST-EXMR: Pavanaram K. Sripada
LEGAL-REP: Jeffrey B. Oster, Stephen Faciszewski

US PAT NO: 5,340,813 [IMAGE AVAILABLE] L3: 56 of 93
DATE ISSUED: Aug. 23, 1994
TITLE: Substituted aminoalkyl xanthine compounds
INVENTOR: J. Peter Klein, Vashon, WA
Gail Underiner, Bothell, WA
Alistair Leigh, Edmonds, WA
ASSIGNEE: Cell Therapeutics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 07/973,804
DATE FILED: Nov. 9, 1992
ART-UNIT: 122
PRIM-EXMR: Mukund J. Shah
ASST-EXMR: P. K. Sripada
LEGAL-REP: Jeffrey B. Oster

US PAT NO: 5,334,532 [IMAGE AVAILABLE] L3: 57 of 93
DATE ISSUED: Aug. 2, 1994
TITLE: PDGF-B fusion protein, vectors, and host cells for use in production thereof
INVENTOR: Charles Tackney, Brooklyn, NY
Jurgen Hoppe, Wurzburg, Federal Republic of Germany
Wolfram Eichner, Braunschweig, Federal Republic of Germany
Herbert Weich, Braunschweig, Federal Republic of Germany
ASSIGNEE: ImClone Systems Incorporated, New York, NY (U.S. corp.)
APPL-NO: 07/675,885
DATE FILED: Jun. 4, 1991
ART-UNIT: 182
PRIM-EXMR: Robert J. Hill, Jr.
ASST-EXMR: Marianne Porta Allen
LEGAL-REP: Irving N. Feit, Eric J. Sheets

US PAT NO: 5,328,955 [IMAGE AVAILABLE] L3: 58 of 93
DATE ISSUED: Jul. 12, 1994
TITLE: Collagen-polymer conjugates
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA
Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 07/922,541
DATE FILED: Jul. 30, 1992
ART-UNIT: 153
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Karl Bozicevic

US PAT NO: 5,326,695 [IMAGE AVAILABLE] L3: 59 of 93
DATE ISSUED: Jul. 5, 1994
TITLE: Platelet derived growth factor agonists
INVENTOR: Maria Andersson, Uppsala, Sweden
Gudrun Backstrom, Uppsala, Sweden

Ulla Engstrom, Uppsala, Sweden
 Carl-Henrik Heldin, Uppsala, Sweden
 Ulf Hellman, Uppsala, Sweden
 Arne stman, Uppsala, Sweden
 Bengt Westermark, Uppsala, Sweden
 ASSIGNEE: Ludwig Institute for Cancer Research, New York, NY (U.S. corp.)
 APPL-NO: 07/883,949
 DATE FILED: May 15, 1992
 ART-UNIT: 182
 PRIM-EXMR: Robert J. Hill, Jr.
 ASST-EXMR: Marianne Porta Allen
 LEGAL-REP: Fette & Lynch

US PAT NO: 5,324,775 [IMAGE AVAILABLE] L3: 60 of 93
 DATE ISSUED: Jun. 28, 1994
 TITLE: Biologically inert, biocompatible-polymer conjugates
 INVENTOR: Woonza Rhee, Palo Alto, CA
 Donald G. Wallace, Menlo Park, CA
 Alan S. Michaels, Boston, MA
 Ramon A. Burns, Jr., Fremont, CA
 Louis Fries, Los Altos, CA
 Frank DeLustro, Belmont, CA
 Hanne Bentz, Newark, CA
 ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
 APPL-NO: 07/907,518
 DATE FILED: Jul. 2, 1992
 ART-UNIT: 153
 PRIM-EXMR: Nathan M. Nutter
 LEGAL-REP: Karl Bozicevic

US PAT NO: 5,308,889 [IMAGE AVAILABLE] L3: 61 of 93
 DATE ISSUED: May 3, 1994
 TITLE: Dehydrated collagen-polymer strings
 INVENTOR: Woonza Rhee, Pal Alto, CA
 Louis Fries, Los Altos, CA
 Ramesh Damani, Mountain View, CA
 Kimberly McCullough, Hayward, CA
 Frank DeLustro, Belmont, CA
 ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
 APPL-NO: 07/984,197
 DATE FILED: Dec. 2, 1992
 ART-UNIT: 153
 PRIM-EXMR: Nathan M. Nutter
 LEGAL-REP: Karl Bozicevic

US PAT NO: 5,306,500 [IMAGE AVAILABLE] L3: 62 of 93
 DATE ISSUED: Apr. 26, 1994
 TITLE: Method of augmenting tissue with collagen-polymer conjugates
 INVENTOR: Woonza Rhee, Palo Alto, CA
 Donald G. Wallace, Menlo Park, CA
 Alan S. Michaels, Boston, MA
 Ramon A. Burns, Jr., Fremont, CA
 Louis Fries, Los Altos, CA
 Frank DeLustro, Belmont, CA
 Hanne Bentz, Newark, CA
 ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
 APPL-NO: 08/110,577
 DATE FILED: Aug. 23, 1993
 ART-UNIT: 153
 PRIM-EXMR: Nathan M. Nutter
 LEGAL-REP: Morrison & Foerster

US PAT NO: 5,304,595 [IMAGE AVAILABLE] L3: 63 of 93
 DATE ISSUED: Apr. 19, 1994
 TITLE: Collagen-polymer conjugates
 INVENTOR: Woonza Rhee, Palo Alto, CA
 Donald G. Wallace, Menlo Park, CA
 Alan S. Michaels, Boston, MA
 Ramon A. Burns, Jr., Fremont, CA
 Louis Fries, Los Altos, CA
 Frank DeLustro, Belmont, CA
 Hanne Bentz, Newark, CA
 ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
 APPL-NO: 07/998,802
 DATE FILED: Dec. 30, 1992
 ART-UNIT: 153
 PRIM-EXMR: Nathan M. Nutter
 LEGAL-REP: Karl Bozicevic

US PAT NO: 5,292,802 [IMAGE AVAILABLE] L3: 64 of 93
 DATE ISSUED: Mar. 8, 1994
 TITLE: Collagen-polymer tubes for use in vascular surgery
 INVENTOR: Woonza Rhee, Palo Alto, CA
 Kimberly McCullough, Hayward, CA
 ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
 APPL-NO: 07/985,680

DATE FILED: Dec. 2, 1992
 ART-UNIT: 153
 PRIM-EXMR: Nathan M. Nutter
 LEGAL-REP: Karl Bozicevic

US PAT NO: 5,292,656 [IMAGE AVAILABLE] L3: 65 of 93
 DATE ISSUED: Mar. 8, 1994
 TITLE: Rat osteosarcoma cell line OSR-6
 INVENTOR: Claus-Jens W. Doersen, Cincinnati, OH
 Robert J. Isfort, Cincinnati, OH
 ASSIGNEE: The Procter & Gamble Company, Cincinnati, OH (U.S. corp.)
 APPL-NO: 07/903,435
 DATE FILED: Jun. 24, 1992
 ART-UNIT: 182
 PRIM-EXMR: Robert J. Hill, Jr.
 ASST-EXMR: Sally P. Teng
 LEGAL-REP: Brahm J. Corstanje, Milton B. Graff, IV, David L. Suter

US PAT NO: 5,288,628 [IMAGE AVAILABLE] L3: 66 of 93
 DATE ISSUED: Feb. 22, 1994
 TITLE: Rat osteosarcoma cell line OSR4TR1
 INVENTOR: Claus-Jens W. Doersen, Cincinnati, OH
 Robert J. Isfort, Cincinnati, OH
 ASSIGNEE: The Procter & Gamble Company, Cincinnati, OH (U.S. corp.)
 APPL-NO: 07/903,436
 DATE FILED: Jun. 24, 1992
 ART-UNIT: 182
 PRIM-EXMR: Robert J. Hill, Jr.
 ASST-EXMR: Sally Teng
 LEGAL-REP: Brahm J. Corstanje, Milton B. Graff, IV, David L. Suter

US PAT NO: 5,286,645 [IMAGE AVAILABLE] L3: 67 of 93
 DATE ISSUED: Feb. 15, 1994
 TITLE: Rat osteosarcoma cell line osr3tr1
 INVENTOR: Claus-Jens W. Doersen, Cincinnati, OH
 Robert J. Isfort, Cincinnati, OH
 ASSIGNEE: The Procter & Gamble Company, Cincinnati, OH (U.S. corp.)
 APPL-NO: 07/903,434
 DATE FILED: Jun. 24, 1992
 ART-UNIT: 182
 PRIM-EXMR: Robert J. Hill, Jr.
 ASST-EXMR: Sally Teng
 LEGAL-REP: Brahm J. Corstanje, Milton B. Graff, IV, David L. Suter

US PAT NO: 5,286,644 [IMAGE AVAILABLE] L3: 68 of 93
 DATE ISSUED: Feb. 15, 1994
 TITLE: Rat osteosarcoma cell line OSR-2
 INVENTOR: Claus-Jens W. Doersen, Cincinnati, OH
 Robert J. Isfort, Cincinnati, OH
 ASSIGNEE: The Procter & Gamble Company, Cincinnati, OH (U.S. corp.)
 APPL-NO: 07/903,432
 DATE FILED: Jun. 24, 1992
 ART-UNIT: 182
 PRIM-EXMR: Robert J. Hill, Jr.
 ASST-EXMR: Sally P. Teng
 LEGAL-REP: Brahm J. Corstanje, Milton B. Graff, IV, David L. Suter

US PAT NO: 5,286,643 [IMAGE AVAILABLE] L3: 69 of 93
 DATE ISSUED: Feb. 15, 1994
 TITLE: Rat osteosarcoma cell line OSR-8
 INVENTOR: Claus-Jens W. Doersen, Cincinnati, OH
 Robert J. Isfort, Cincinnati, OH
 ASSIGNEE: The Procter & Gamble Company, Cincinnati, OH (U.S. corp.)
 APPL-NO: 07/903,431
 DATE FILED: Jun. 24, 1992
 ART-UNIT: 182
 PRIM-EXMR: Robert J. Hill, Jr.
 ASST-EXMR: Sally P. Teng
 LEGAL-REP: Brahm J. Corstanje, Milton B. Graff, IV, David L. Suter

US PAT NO: 5,286,642 [IMAGE AVAILABLE] L3: 70 of 93
 DATE ISSUED: Feb. 15, 1994
 TITLE: Rat osteosarcoma cell line OSR5TR2
 INVENTOR: Claus-Jens W. Doersen, Cincinnati, OH
 Robert J. Isfort, Cincinnati, OH
 ASSIGNEE: The Procter & Gamble Company, Cincinnati, OH (U.S. corp.)
 APPL-NO: 07/903,429
 DATE FILED: Jun. 24, 1992
 ART-UNIT: 182
 PRIM-EXMR: Robert J. Hill, Jr.
 ASST-EXMR: Sally P. Teng

LEGAL-REP: Brahm J. Corstanje, Milton B. Graff, IV, David L. Suter

US PAT NO: 5,272,064 [IMAGE AVAILABLE] L3: 71 of 93
 DATE ISSUED: Dec. 21, 1993

TITLE: DNA molecules encoding platelet-derived growth factor B chain analogs and method for expression thereof
INVENTOR: Arlen R. Thomason, Thousand Oaks, CA
ASSIGNEE: Amgen Inc., Thousand Oaks, CA (U.S. corp.)
APPL-NO: 07/624,451
DATE FILED: Dec. 13, 1990
ART-UNIT: 182
PRIM-EXMR: Robert J. Hill, Jr.
ASST-EXMR: Shelly Guest Cermak
LEGAL-REP: Julia E. Abers

US PAT NO: 5,264,358 [IMAGE AVAILABLE] L3: 72 of 93
DATE ISSUED: Nov. 23, 1993
TITLE: Rat osteosarcoma cell line OSR9TR1
INVENTOR: Claus-Jens W. Doersen, Cincinnati, OH
Robert J. Isfort, Cincinnati, OH
ASSIGNEE: The Procter & Gamble Company, Cincinnati, OH (U.S. corp.)
APPL-NO: 07/904,107
DATE FILED: Jun. 24, 1992
ART-UNIT: 187
PRIM-EXMR: Margaret Moskowitz Parr
ASST-EXMR: Carla Myers
LEGAL-REP: Braham J. Corstanje, Milton B. Graff, IV, Jerry J. Yetter

US PAT NO: 5,264,214 [IMAGE AVAILABLE] L3: 73 of 93
DATE ISSUED: Nov. 23, 1993
TITLE: Composition for bone repair
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA
Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 07/930,142
DATE FILED: Aug. 14, 1992
ART-UNIT: 153
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Karl Bozicevic

US PAT NO: 5,238,950 [IMAGE AVAILABLE] L3: 74 of 93
DATE ISSUED: Aug. 24, 1993
TITLE: Inhibitors of platelet-derived growth factor
INVENTOR: John W. Clader, Cranford, NJ
Harry R. Davis, Berkeley Heights, NJ
Deborra Mullins, New York, NY
Stuart Rosenblum, West Orange, NJ
Jay Weinstein, Upper Montclair, NJ
ASSIGNEE: Schering Corporation, Kenilworth, NJ (U.S. corp.)
APPL-NO: 07/808,997
DATE FILED: Dec. 17, 1991
ART-UNIT: 122
PRIM-EXMR: Mukund J. Shah
ASST-EXMR: Y. N. Gupta
LEGAL-REP: Paul A. Thompson, Anita W. Magatti

US PAT NO: 5,219,759 [IMAGE AVAILABLE] L3: 75 of 93
DATE ISSUED: Jun. 15, 1993
TITLE: Recombinant DNA encoding PDGF A-chain polypeptide and expression vectors
INVENTOR: Carl-Henrik Heldin, Uppsala, Sweden
Christer Betsholtz, Uppsala, Sweden
Bengt Westermark, Uppsala, Sweden
Timothy J. Knott, London, England
James Scott, London, England
Graeme I. Bell, San Francisco, CA
ASSIGNEE: Chiron Corporation, Emeryville, CA (U.S. corp.)
APPL-NO: 07/574,540
DATE FILED: Aug. 27, 1990
ART-UNIT: 182
PRIM-EXMR: Robert J. Hill, Jr.
ASST-EXMR: Marianne Porta Allen
LEGAL-REP: Barbara G. McClung, Roberta L. Robins, Amy L. Collins

US PAT NO: 5,219,739 [IMAGE AVAILABLE] L3: 76 of 93
DATE ISSUED: Jun. 15, 1993
TITLE: DNA sequences encoding bVEGF120 and hVEGF121 and methods for the production of bovine and human vascular endothelial cell growth factors, bVEGF.sub.120 and hVEGF.sub.121
INVENTOR: Edmund G. Tischer, Palo Alto, CA
Judith A. Abraham, Sunnyvale, CA
John C. Fiddes, Palo Alto, CA
Richard L. Mitchell, Sunnyvale, CA
ASSIGNEE: Scios Nova Inc., Mountain View, CA (U.S. corp.)
APPL-NO: 07/559,041
DATE FILED: Jul. 27, 1990

ART-UNIT: 182
PRIM-EXMR: Robert J. Hill, Jr.
ASST-EXMR: Marianne Porta Allen
LEGAL-REP: Peter R. Shearer

US PAT NO: 5,219,578 [IMAGE AVAILABLE] L3: 77 of 93
DATE ISSUED: Jun. 15, 1993
TITLE: Collagen wound healing matrices and process for their production
INVENTOR: George H. Chu, Sunnyvale, CA
Yasushi Ogawa, Pacifica, CA
John M. McPherson, Hopkinton, MA
George Ksander, Redwood City, CA
Bruce Pratt, Union City, CA
Diana Hendricks, Brea, CA
Hugh McMullin, San Bruno, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 07/801,732
DATE FILED: Dec. 3, 1991
ART-UNIT: 152
PRIM-EXMR: Thurman K. Page
ASST-EXMR: G. S. Kishore
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,194,596 [IMAGE AVAILABLE] L3: 78 of 93
DATE ISSUED: Mar. 16, 1993
TITLE: Production of vascular endothelial cell growth factor
INVENTOR: Edmund G. Tischer, Palo Alto
Judith A. Abraham, Sunnyvale
John C. Fiddes, Palo Alto
Richard L. Mitchell, Sunnyvale, CA
ASSIGNEE: California Biotechnology Inc., Mountain View, CA (U.S. corp.)
APPL-NO: 07/450,883
DATE FILED: Dec. 14, 1989
ART-UNIT: 183
PRIM-EXMR: Christine M. Nucker
ASST-EXMR: H. F. Sidberry
LEGAL-REP: Peter R. Shearer

US PAT NO: 5,192,660 [IMAGE AVAILABLE] L3: 79 of 93
DATE ISSUED: Mar. 9, 1993
TITLE: ELISA methods for the determination of human platelet derived growth factor (PDGF) dimer forms present in human tissues and fluids
INVENTOR: Berenice Y. Reed-Gitomer, Washington Grove, MD
ASSIGNEE: The United States of America as represented by the Department of Health and Human Services, Washington, DC (U.S. govt.)
APPL-NO: 07/341,949
DATE FILED: Apr. 24, 1989
ART-UNIT: 182
PRIM-EXMR: David Saunders
LEGAL-REP: Birch, Stewart, Kolasch & Birch

US PAT NO: 5,175,255 [IMAGE AVAILABLE] L3: 80 of 93
DATE ISSUED: Dec. 29, 1992
TITLE: Methods for purification of platelet-derived growth factor
INVENTOR: Arlen R. Thomason, Thousand Oaks, CA
Margery A. Nicolson, Pacific Palisades, CA
ASSIGNEE: Amgen Inc., Thousand Oaks, CA (U.S. corp.)
APPL-NO: 07/025,344
DATE FILED: Mar. 23, 1987
ART-UNIT: 181
PRIM-EXMR: F. T. Moezie
LEGAL-REP: Julia E. Abers, Steven M. Odre

US PAT NO: 5,162,430 [IMAGE AVAILABLE] L3: 81 of 93
DATE ISSUED: Nov. 10, 1992
TITLE: Collagen-polymer conjugates
INVENTOR: Woonza Rhee, Palo Alto, CA
Donald G. Wallace, Menlo Park, CA
Alan S. Michaels, Boston, MA
Ramon A. Burns, Jr., Fremont, CA
Louis Fries, Los Altos, CA
Frank DeLustro, Belmont, CA
Hanne Bentz, Newark, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 07/433,441
DATE FILED: Nov. 14, 1989
ART-UNIT: 153
PRIM-EXMR: Nathan M. Nutter
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,155,027 [IMAGE AVAILABLE] L3: 82 of 93
DATE ISSUED: Oct. 13, 1992
TITLE: Method of producing secreted receptor analogs and

biologically active peptide dimers
INVENTOR: Andrzej Z. Sledziewski, Seattle, WA
Lillian A. Bell, Seattle, WA
Wayne R. Kindsvogel, Seattle, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 07/347,291
DATE FILED: May 2, 1989
ART-UNIT: 185
PRIM-EXMR: Richard A. Schwartz
ASST-EXMR: John D. Ulm
LEGAL-REP: Seed and Berry

US PAT NO: 5,149,792 [IMAGE AVAILABLE] L3: 83 of 93
DATE ISSUED: Sep. 22, 1992
TITLE: Platelet-derived growth factor B chain analogs
INVENTOR: Arlen R. Thomason, Thousand Oaks, CA
ASSIGNEE: Amgen Inc., Thousand Oaks, CA (U.S. corp.)
APPL-NO: 07/454,794
DATE FILED: Dec. 19, 1989
ART-UNIT: 182
PRIM-EXMR: David L. Lacey
ASST-EXMR: Shelly J. Guest
LEGAL-REP: Julia E. Abers

US PAT NO: 5,128,321 [IMAGE AVAILABLE] L3: 84 of 93
DATE ISSUED: Jul. 7, 1992
TITLE: PDGF analogs and methods of use
INVENTOR: Mark J. Murray, Seattle, WA
James D. Kelly, Seattle, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 07/230,190
DATE FILED: Aug. 8, 1988
ART-UNIT: 181
PRIM-EXMR: F. T. Moezie
LEGAL-REP: Seed and Berry

US PAT NO: 5,124,316 [IMAGE AVAILABLE] L3: 85 of 93
DATE ISSUED: Jun. 23, 1992
TITLE: Method for periodontal regeneration
INVENTOR: Harry N. Antoniades, Newton, MA
Samuel E. Lynch, Jamaica Plain, MA
ASSIGNEE: President and Fellows of Harvard College, Cambridge, MA
(U.S. corp.)
Institute of Molecular Biology, Inc., Boston, MA (U.S. corp.)
APPL-NO: 07/582,332
DATE FILED: Sep. 13, 1990
ART-UNIT: 181
PRIM-EXMR: F. T. Moezie
LEGAL-REP: Fish & Richardson

US PAT NO: 5,110,604 [IMAGE AVAILABLE] L3: 88 of 93
DATE ISSUED: May 5, 1992
TITLE: Processes for producing collagen matrixes and methods of using same
INVENTOR: George H. Chu, Sunnyvale, CA
Yasushi Ogawa, Pacifica, CA
John M. McPherson, Framingham, MA
George Ksander, Redwood City, CA
Bruce Pratt, Union City, CA
Diana Hendricks, Brea, CA
Hugh McMullin, San Bruno, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 07/630,299
DATE FILED: Dec. 19, 1990
ART-UNIT: 152
PRIM-EXMR: Thurman K. Page
ASST-EXMR: G. S. Kishore
LEGAL-REP: Morrison & Foerster

US PAT NO: 5,094,941 [IMAGE AVAILABLE] L3: 87 of 93
DATE ISSUED: Mar. 10, 1992
TITLE: Monoclonal antibodies to PDGF
INVENTOR: Charles E. Hart, Brier, WA
ASSIGNEE: ZymoGenetics, Inc., Seattle, WA (U.S. corp.)
APPL-NO: 07/139,980
DATE FILED: Dec. 31, 1987
ART-UNIT: 182
PRIM-EXMR: David Saunders
LEGAL-REP: Seed and Berry

US PAT NO: 5,035,887 [IMAGE AVAILABLE] L3: 88 of 93
DATE ISSUED: Jul. 30, 1991
TITLE: Wound healing composition of IL-1 and PDGF or IGF-1
INVENTOR: Harry N. Antoniades, Newton, MA
Samuel E. Lynch, Jamaica Plain, MA

ASSIGNEE: Institute of Molecular Biology, Inc., Boston, MA (U.S. corp.)
President and Fellows of Harvard College, Cambridge, MA (U.S. corp.)
APPL-NO: 07/403,969
DATE FILED: Sep. 7, 1989
ART-UNIT: 189
PRIM-EXMR: Howard E. Schain
LEGAL-REP: Fish & Richardson

US PAT NO: 5,034,375 [IMAGE AVAILABLE] L3: 89 of 93
DATE ISSUED: Jul. 23, 1991
TITLE: Process of wound healing using PDGF and EGF
INVENTOR: Harry N. Antoniades, Newton, MA
Samuel E. Lynch, Jamaica Plain, MA
ASSIGNEE: Institute of Molecular Biology, Inc., Boston, MA (U.S. corp.)
President and Fellows of Harvard College, Cambridge, MA (U.S. corp.)
APPL-NO: 07/231,145
DATE FILED: Aug. 10, 1988
ART-UNIT: 189
PRIM-EXMR: Howard E. Schain
LEGAL-REP: Fish & Richardson

US PAT NO: 5,024,841 [IMAGE AVAILABLE] L3: 90 of 93
DATE ISSUED: Jun. 18, 1991
TITLE: Collagen wound healing matrices and process for their production
INVENTOR: George H. Chu, Sunnyvale, CA
Yasushi Ogawa, Pacifica, CA
John M. McPherson, Hopkinton, MA
George Ksander, Redwood City, CA
Bruce Pratt, Union City, CA
Diana Hendricks, Brea, CA
Hugh McMullin, San Bruno, CA
ASSIGNEE: Collagen Corporation, Palo Alto, CA (U.S. corp.)
APPL-NO: 07/213,726
DATE FILED: Jun. 30, 1988
ART-UNIT: 152
PRIM-EXMR: Thurman K. Page
ASST-EXMR: G. S. Kishore
LEGAL-REP: Irell & Manella

US PAT NO: 5,019,559 [IMAGE AVAILABLE] L3: 91 of 93
DATE ISSUED: May 28, 1991
TITLE: Wound healing using PDGF and IGF-II
INVENTOR: Harry N. Antoniades, Newton, MA
Samuel E. Lynch, Jamaica Plain, MA
ASSIGNEE: President and Fellows of Harvard College, Cambridge, MA (U.S. corp.)
APPL-NO: 07/272,090
DATE FILED: Nov. 16, 1988
ART-UNIT: 186
PRIM-EXMR: Howard E. Schain

US PAT NO: 4,874,746 [IMAGE AVAILABLE] L3: 92 of 93
DATE ISSUED: Oct. 17, 1989
TITLE: Wound healing composition of TGF-alpha and PDGF
INVENTOR: Harry N. Antoniades, Newton, MA
Samuel E. Lynch, Jamaica Plain, MA
ASSIGNEE: Institute of Molecular Biology, Inc., Boston, MA (U.S. corp.)
President and Fellows of Harvard College, Cambridge, MA (U.S. corp.)
APPL-NO: 07/136,399
DATE FILED: Dec. 22, 1987
ART-UNIT: 186
PRIM-EXMR: Howard E. Schain
LEGAL-REP: Paul T. Clark

US PAT NO: 4,861,757 [IMAGE AVAILABLE] L3: 93 of 93
DATE ISSUED: Aug. 29, 1989
TITLE: Wound healing and bone regeneration using PDGF and IGF-I
INVENTOR: Harry N. Antoniades, Newton, MA
Samuel E. Lynch, Jamaica Plain, MA
Ray C. Williams, Arlington, MA
ASSIGNEE: Institute of Molecular Biology, Boston, MA (U.S. corp.)
President and Fellows of Harvard College, Cambridge, MA (U.S. corp.)
APPL-NO: 07/120,943
DATE FILED: Nov. 18, 1987
ART-UNIT: 186
PRIM-EXMR: Howard E. Schain
LEGAL-REP: Paul T. Clark

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L3 12882 (PLATELET DERIVED GROWTH FACTOR) OR PDGF OR ODGF

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L5 23147 FILE HCAPLUS ~

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L6 260677 HOMODIMER OR AA

=> ~s l3 (a) l6

L7 429 FILE MEDLINE ~
L8 417 FILE HCAPLUS ~

TOTAL FOR ALL FILES
L9 846 L3 (A) L6

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TOTAL FOR ALL FILES
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TOTAL FOR ALL FILES
L15 2 L9 NOT L12

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L16 2 DUP REM L15 (0 DUPLICATES REMOVED)

=> ~d bib ab 1-

L16 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 1997 ACS

AN 1987:513455 HCAPLUS

DN 107:113455

TI Detection of PDGF-2 homodimers in human tumor cells

AU Igarashi, H.; Rao, C. D.; Siroff, M.; Leal, F.; Robbins, K. C.; Aaronson, S. A.

CS Lab. Cell. Mol. Biol., Natl. Cancer Inst., Bethesda, MD, 20892, USA
SO Oncogene (1987), 1(1), 79-85

CODEN: ONCNE5

DT Journal

LA English

AB The v-sis oncogene encodes a protein structurally and functionally related to human platelet-derived growth factor (PDGF). The primary translational product of the human sis protooncogene is a 26-kd protein, p26c-sis. This product is processed to yield a disulfide-linked homodimer, p56c-sis, which is further processed to a 35,000-dalton dimer, p35c-sis. Like the v-sis gene product, the PDGF-2 precursor undergoes N-linked glycosylation, implying its processing through the endoplasmic reticulum. The PDGF-2 product was shown to possess functional properties of PDGF. Whereas lysates of control COS-1 cells lacked mitogenic activity, lysates of COS-1 cells transfected with a c-sis/PDGF-2 expression vector specifically stimulated DNA synthesis of quiescent fibroblasts. Moreover, this activity was completely inhibitable by PDGF antibody. Identical forms of the sis/PDGF-2 product were identified in human tumor cells that expressed c-sis/PDGF-2 transcripts. These proteins were shown to be specifically assoc. with the membrane component of the tumor cells and were not detectably secreted into the culture medium. These findings support the concept that expression of the sis/PDGF-2 product in human cells responsive to its proliferative actions can be an important step in the processes leading to malignancy.

L16 ANSWER 2 OF 2 MEDLINE

AN 85183135 MEDLINE

TI Human platelet-derived growth factor stimulates prostaglandin synthesis by activation and by rapid de novo synthesis of cyclooxygenase.

AU Habenicht A J; Goerig M; Grulich J; Rothe D; Gronwald R; Loth U; Schettler G; Kommerell B; Ross R

SO JOURNAL OF CLINICAL INVESTIGATION, (1985 Apr) 75 (4) 1381-7.
Journal code: HS7. ISSN: 0021-9738.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals
EM 8508

AB Human platelet-derived growth factor (PDGF) stimulated prostaglandin (PG) E2 synthesis in the cell cycle of Swiss 3T3 cells at two distinct time intervals, with a first plateau within 10 min and a second plateau within 2-4 h after addition of PDGF. At 4 h, the concentration of PGE2 in PDGF-stimulated cultures exceeded the quiescent control cells by a factor of 10-15. Quiescent cells incubated with up to 16 microM exogenous arachidonic acid (AA) synthesized only small amounts of PGE2. In contrast, 4 h after addition of PDGF, the concentration of PGE2 synthesized from exogenous AA exceeded that in quiescent cultures by a factor of 28. The effect of PDGF stimulation on PG synthesis from exogenous AA could not be explained by growth factor-mediated increase in the cellular free AA pool as shown in experiments using [14C] ***AA***. ***PDGF*** also stimulated synthesis of PGI2 (prostacyclin), thromboxane, and PGF2 alpha from exogenous AA. While inhibition of protein synthesis by 10 micrograms/ml cycloheximide had no effect on the early increase in PGE2 synthesis, the second increase was completely prevented. Additionally, cycloheximide treatment at 6 h after PDGF stimulation resulted in rapid decline of PGE2 synthesis from exogenous AA. Quiescent cultures pretreated with 100 microM aspirin and stimulated by PDGF thereafter recovered from cyclooxygenase inhibition within 180 min. Our results suggest that phospholipase activation and resultant AA release is not sufficient to induce the burst of PG synthesis observed in PDGF-stimulated cells. Instead, PDGF stimulates PG synthesis by direct effects on the PG-synthesizing enzyme system, one involving a protein synthesis-independent mechanism and another that requires rapid translation of cyclooxygenase.

=> <s odgf

L17 2 FILE MEDLINE
L18 3 FILE HCAPLUS

TOTAL FOR ALL FILES
L19 5 ODGF

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PROCESSING COMPLETED FOR L19
L20 3 DUP REM L19 (2 DUPLICATES REMOVED)

=> <d bib ab 1-

L20 ANSWER 1 OF 3 MEDLINE DUPLICATE 1
AN 86118705 MEDLINE

TI A human osteosarcoma cell line secretes a growth factor structurally related to a homodimer of PDGF A-chains.

AU Heldin C H; Johnsson A; Wennberg S; Wernstedt C; Betsholtz C; Westermark B

SO NATURE, (1988 Feb 6-12) 319 (6053) 511-4.

Journal code: NSC. ISSN: 0028-0836.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 8605

AB Platelet-derived growth factor (PDGF), as purified from fresh human platelets, is a protein of relative molecular mass (Mr) 30,000 composed of two disulphide-linked subunit chains of similar size, named A and B (ref. 1). The dimer structure of PDGRF seems to be important for its biological effects, as reduction irreversibly inactivates the factor; it is not known, however, whether PDGF exists as a heterodimer or as a mixture of homodimers. Amino-acid sequence analysis has revealed that the A- and B-chains of human PDGF are related to each other, and that the B-chain is almost identical to part of the v-sis gene product of simian sarcoma virus (SSV). There is experimental evidence that a PDGF-like protein is indeed operational in SSV-induced transformation and the biologically active v-sis product is probably structurally similar to a putative dimer of PDGF B-chains. PDGF-like growth factors and/or a 4.2-kilobase (kb) c-sis transcript are present in several transformed mammalian cell lines and in certain nontransformed cells; cloned c-sis complementary DNA from human T cells transformed with human T-lymphotropic virus (HTLV) or from human endothelial cells contains the coding sequence for a putative PDGF B-chain precursor, but apparently lacks PDGF A-chain sequences. We have previously partially purified and characterized a PDGF-like growth factor from U-2 OS cells (osteosarcoma-derived growth factor, ***ODGF***) and shown that this factor has structural, functional and immunological characteristics in common with PDGF. We describe here a procedure for the preparation of homogeneous ***ODGF***, and provide evidence that this factor, which binds to the PDGF receptor, has a structure similar to a homodimer of PDGF A-chains.

L20 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 1997 ACS

AN 1982:50352 HCAPLUS

DN 96:50352

TI Demonstration of an antibody against platelet-derived growth factor

AU Heldin, C. H.; Westermark, B.; Wasteson, A.

CS Inst. Med. Physiol. Chem., Uppsala Univ., Uppsala, S-751 23, Swed.

SO Exp. Cell Res. (1981), 136(2), 255-61

CODEN: ECREAL; ISSN: 0014-4827

DT Journal

LA English

AB An antibody was raised in a rabbit against platelet-derived growth factor (PDGF), purified from human platelets. The antibody recognized specifically 125I-labeled PDGF, as demonstrated by gel electrophoretic anal. of pptd. radioactivity. Addn. of Igs from the immune serum to cell cultures together with PDGF inhibited the multiplication-stimulating activity of the growth factor. Further, multiplication-stimulating activity in crude platelet lysate was retained upon passage over a column of Sepharose-bound anti-PDGF; it was recovered after elution of the column with acid. A radioimmunoassay for PDGF was developed, permitting the detn. of 5 ng PDGF/mL. Platelet factor 4 and .beta.-thromboglobulin, both being proteins of the platelet .alpha.-granule, did not cross-react in the radioimmunoassay for PDGF. The radioimmunoassay was utilized to examine the immunol. relation between PDGF and some other growth factors. The anionic growth factors previously demonstrated in platelets were antigenically distinct from cationic PDGF. Similar results were obtained with epidermal growth factor (EGF) of fibroblast growth factor (FGF). In contrast, osteosarcoma-derived growth factor showed some cross-reactivity in the radioimmunoassay for PDGF. Apparently, osteosarcoma-derived growth factor (***ODGF***) has both phys.-chem. and immunol. properties in common with PDGF.

L20 ANSWER 3 OF 3 MEDLINE DUPLICATE 2

AN 81117511 MEDLINE

TI Chemical and biological properties of a growth factor from

human-cultured osteosarcoma cells: resemblance with platelet-derived growth factor.

AU Heldin C H; Westermark B; Wasteson A

SO JOURNAL OF CELLULAR PHYSIOLOGY, (1980 Nov) 105 (2) 235-46. Journal code: HNB. ISSN: 0021-9541.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 8106

AB A human osteosarcoma cell line, U-2 OS, cultured under serum-free conditions, was shown to produce a growth factor (osteosarcoma-derived growth factor, ***ODGF***) for human-cultured glial cells, fibroblasts, and other cells. ***ODGF***, collected from the spent medium of 2 OS cultures, was purified by a sequence involving heparin-Sepharose chromatography, hydrophobic chromatography, gel chromatography, and preparative gel electrophoresis in SDS. Purified ***ODGF***, at a concentration of 3 ng/ml, elicited a mitogenic response in human glial cells equivalent to 50% of that afforded by human serum at a final concentration of 1%. The preparation was estimated to be > 50% pure. The biological activity of ***ODGF*** resided in a cationic, relatively heat-resistant, reduction-susceptible protein with a molecular weight of 30,000 (by gel chromatography and SDS-gel electrophoresis). The electrophoretic behaviour of radioiodinated ***ODGF*** suggested that the protein was composed of two different polypeptide chains (about 13,000-14,00 and 16,000-17,000 daltons, respectively) linked via disulphide bonds. The molecular makeup of ***ODGF*** was thus similar to that of platelet-derived growth factor. 125I-***ODGF*** could be precipitated by an antibody to platelet-derived growth factor, indicating that the two factors were immunologically related. Resemblance with platelet-derived growth factor was also indicated by the finding that the latter (but not, e.g., fibroblast growth factor or epidermal growth factor) competed with 125I-***ODGF*** for binding to human-cultured glial cells.